

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	45	"4604161"	US-PGPUB; USPAT	OR	ON	2008/12/29 13:12
S2	0	"2765644"	JPO	OR	ON	2008/12/29 15:18
S3	45	("3247576"   "3936329"   "4019248"   "4269653"   "4325182").PN. OR ("4604161").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 16:36
S4	2	S3 and (c near surface)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 16:37
S5	0	S3 and (sapphire same (c near surface))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 16:39
S6	332	(sapphire same (c near surface))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 16:39
S7	7	S6 and ((gallium near nitride) or "GaN") and (semi \$1conductor near chip\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 16:41
S8	7	S7 and (hexagon\$3 same nitride same semi\$1conductor (substrate or support or surface))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 17:12
S9	2	S7 and (hexagon\$3 same nitride same semi\$1conductor same (substrate or support or surface))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 17:13
S10	0	S7 and (hexagon\$3 same nitride same semi\$1conductor same (substrate or support or surface) same (c near surface))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 17:15

S11	8	S6 and (hexagon\$3 same nitride same semi\$1conductor same substrate) same (sapphire same (c near surface))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 17:40
S12	8	S6 and ((hexagon\$3 same nitride same semi\$1conductor same substrate) same (sapphire same (c near surface)))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 17:41
S13	8	((hexagon\$3 same nitride same semi\$1conductor same substrate) same (sapphire same (c near surface)))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 17:45
S14	4	((hexagon\$3 same nitride same semi\$1conductor same substrate) same (sapphire same (c near surface))) and ((silicon near carbide) or SiC)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 17:48
S15	1	(semi\$1conductor adj chip same (manufactur\$3 or product\$3)) and (light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and (sapphire same (c near surface)) and (((orthogonal or perpendicular) and parallel) same (orient \$5 near2 flat))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:16

S16	1	(light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and (sapphire same (c near surface)) and (((orthogonal or perpendicular) and parallel) same (orient \$5 near2 flat))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:18
S17	1	(sapphire same (c near surface)) and (((orthogonal or perpendicular) and parallel) same (orient \$5 near2 flat))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:19
S18	1	(sapphire same (c near surface)) and ((parallel) same (orient\$5 near2 flat))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:20
S19	1	(sapphire same (c near surface)) same (orient\$5 near2 flat)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:20
S20	334	(sapphire same (c near surface))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:20
S21	5	(semi\$1conductor adj chip same (manufactur\$3 or product\$3)) and (light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and (((orthogonal or perpendicular) and parallel) same (orient \$5 near2 flat))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:21
S22	25	(light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and (sapphire same (((orthogonal or perpendicular) and parallel) same (orient \$5 near2 flat)))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:33

S23	1	(light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and ((sapphire same (((orthogonal or perpendicular) and parallel) same (orient \$5 near2 flat))) same (cut\$4 or dic \$3 or cleav\$3 or break\$3 or separat \$3 or divi\$4 or split \$4 or disunit\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:40
S24	170262	(light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and ((sapphire same (((orthogonal or perpendicular) and parallel) same (orient \$5 near2 flat))) same1 (cut\$4 or dic \$3 or cleav\$3 or break\$3 or separat \$3 or divi\$4 or split \$4 or disunit\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:52
S25	170262	(light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and ((sapphire same (c near (surface or plane)) same (((orthogonal or perpendicular) and parallel) same (orient \$5 near2 flat))) same1 (cut\$4 or dic \$3 or cleav\$3 or break\$3 or separat \$3 or divi\$4 or split \$4 or disunit\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:53

S26	170262	(light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and ((sapphire with (c near (surface or plane)) same (((orthogonal or perpendicular) and parallel) same (orient \$5 near2 flat))) same1 (cut\$4 or dic \$3 or cleav\$3 or break\$3 or separat \$3 or divi\$4 or split \$4 or disunit\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:54
S27	170262	(light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and (((sapphire with (c near (surface or plane))) same (((orthogonal or perpendicular) and parallel) with (orient \$5 near2 flat))) same1 (cut\$4 or dic \$3 or cleav\$3 or break\$3 or separat \$3 or divi\$4 or split \$4 or disunit\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:58
S28	170262	(light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and (((sapphire with (c near (surface or plane))) with (((orthogonal or perpendicular) and parallel) with (orient \$5 near2 flat))) same1 (cut\$4 or dic \$3 or cleav\$3 or break\$3 or separat \$3 or divi\$4 or split \$4 or disunit\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 09:23

S29	1	(light near3 (emission\$1 or emitting) near3 (diode or device\$2)) and (((sapphire with (c near (surface or plane))) with (((orthogonal or perpendicular) and parallel) with (orient \$5 near2 flat))) same (cut\$4 or dic \$3 or cleav\$3 or break\$3 or separat \$3 or divi\$4 or split \$4 or disunit\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 09:24
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